International Russian-Chinese
Workshop on Light for Life Sciences
October 16-20, 2025, Hotel Sputnik, 36 Prospect Toreza
St.-Petersburg, Russia

Program

Thursday, October 16	
18:00 – 20:00	**Registration, Welcome party**

Friday, October 17		
Time	Participant, Affiliation	Title
08:30–09:00	**Registration**	
09:00 – 09:15	**Opening**	
	Chair: O. Vasyutinskii	
09:15 – 09:45	Prof. Junle Qu Shenzhen University, Shenzhen, China	High Spatiotemporal Resolution Multimodal In Vivo Optical Microscopy
09:45 – 10:15	Dr. Vladislav Shcheslavskiy Privolzhsky Research Medical University, Nizhny Novgorod, Russia	Time- and Spectrally Resolved Bioimaging
10:15 – 10:45	Prof. Yanmei Wang Wuhan Innovation Academy, Wuhan, China	Vibrational Coherence Dynamics in Excited 2, 4-Difluoroanisole and Its Dimer
10:45 – 11:15	Dr. Andrey Belashov Ioffe Institute, St.Petersburg, Russia	Analysis of Methylene Blue Fluorescence Properties in Solutions and Living Cells
11:15 – 11:45	**Coffee Break**	
	Chair: J. Qu	
11:45 – 12:15	Prof. Oleg Vasyutinskii Ioffe Institute, St.Petersburg, Russia	Determination of Fluorescence Quantum Yields and Decay Times in NADH and FAD in Water-Alcohol Mixtures: Separation of Radiative and Nonradiative Relaxation Pathways
12:15 – 12:45	Prof. Bei Ding Shanghai Jiao Tong University, Shanghai, China	How Do Nature's Smallest Photoswitches Work? Decoding the Proton-Coupled Electron Transfer Code in BLUF Domains
12:45 – 13:15	Dr. Fangrui Lin Shenzhen University, Shenzhen, China	Fluorescence Lifetime Imaging Microscopy and its Biological Applications
13:15 – 15:15	**Lunch**	
	Chair: V. Shcheslavskiy	
15:30 – 16:00	Dr. Ioanna Gorbunova Ioffe Institute, St. Petersburg, Russia	Time-Resolved Polarized Laser Spectroscopy of Fluorescent Endogenous Molecular Probes

16:00 – 16:30	Dr. Xiaoyu Weng Shenzhen University, Shenzhen, China	Research on Optical Imaging via Advanced Light-Field Control
16:30 – 17:00	Denis Volkov Ioffe Institute, St. Petersburg, Russia	Linear Dichroism and Birefringence in Polarization-Modulated Pump-Probe Spectroscopy
19:00	**Dinner**	

Saturday, October 18		
Time	Participant, Affiliation	Title
09:00 – 09:15	**Discussion: Prof. V. Tuchin, Prof. O. Vasyutinskii**	
	Chair: X. Weng	
09:15 – 09:45	Prof. Valery Tuchin Saratov State University, Saratov, Russia	Tissue Optical Clearing Technology in Studies of Diabetes Mellitus Complications
09:45 – 10:15	Dr. Xiu-Wen Kang Shanghai Jiao Tong University, Shanghai, China	Study of the Light-Initiated Ultrafast Dynamics in Gluconobacter oxydans 'ene'-reductace (GluER)
10:15 – 10:45	Prof. Alexander Priezzhev Moscow State University, Moscow, Russia	Assessing the Red Blood Cells Aggregation in Microvessels In Vivo by Optical Capillaroscopy
10:45 – 11:15	Prof. Jian Liu Beijing National Laboratory for Molecular Sciences, Institute of Theoretical and Computational Chemistry, Beijing, China	Nonadiabatic Field:A Conceptually New Approach for Nonadiabatic Transition Dynamics
11:15 – 11:45	**Coffee Break**	
	Chair: V. Tuchin	
11:45 – 12:15	Prof. Jinyou Long Wuhan Innovation Academy, Wuhan, China	UV Wavelength-Dependent Photoionization Quantum Yields for the Dark 1nπ* State of Aqueous Thymidine by Liquid-microjet Photoelectron Spectroscopy
12:15 – 12:45	Irina Semenova Ioffe Institute, St.Petersburg, Russia	QPI- and FLIM-based multimodal approach for analysis of cells' response to treatment
12:45 – 13:15	Dr. Andrei Lugovtsov Moscow State University, Moscow, Russia	Relationship Between Microrheological Parameters of Blood and its Microcirculation Measured by Optical Methods in vitro and in vivo in Cardiovascular Diseases
13:15 – 15:15	**Lunch**	
	Chair: A. Priezzhev	
15:30 – 16:00	Dr. Yu Chen Shenzhen University, Shenzhen, China	In Vivo Imaging of Disease Microenvironments via FLIM and CARS/SHG Imaging for Therapeutic Evaluation

16:00 – 16:30	Dina Beltukova Ioffe Institute, St.Petersburg, Russia	Time-Resolved Phosphorescence of Singlet Oxygen and Triplet State of Radachlorin and Chlorin e6 in the Presence of Albumins
16:30 – 17:00	Danila Umerenkov Moscow State University, Moscow, Russia	Search for Microrheological and Microcirculatory Markers of Cardiovascular Diseases Using Machine Learning
17:00 – 17:15	**Concluding remarks: Prof. J. Qu, Prof. V. Tuchin, Prof. O. Vasyutinskii**	
19:00	**Banquet**	

Sunday, October 19	
09:00 – 18:00	**City Bus Excursion**
20:00	**Dinner**

Monday, October 20	
10:00 – 18:00	**Visiting laboratories of the Ioffe Institute and Alferov Academic University**
19:00	**Dinner**